Data Sheet

We make sure

FUJITSU COMPUTERS SIEMENS

PRIMERGY RX100 S5

Issue: February 2009

Mono Socket Quad-Core Intel® Xeon® UP based Rack Server - Optimized in cost, size and complexity for easy deployment

PRIMERGY RX servers offer the perfect solution to downsize data center infrastructure costs efficiently. Basis for it is an IT strategy for more transparency of structure- and administrative expenses as well as maximum use of investments. Our broad portfolio of innovative virtualization, server and solution offerings for TCO reductions of 60% or more provides best prerequisites. Optimized air flow cooling technology assures a long life, highest possible performance/watt as well as by far best in class efficiency -proven by numerous benchmark records.
Benefit from our renowned experience in datacenter technology. These allow it, to transfer the availability rates of high end UNIX servers to RX rack servers, PRIMECENTER rack enclosures and infrastructure products.
PRIMERGY ServerView Suite with remote management functions provides comprehensive management from anywhere at any time. Our flexible custom supply model and our build-to-order process means that only fully built and pre-tested rack solutions are shipped to the customer. Last but not least Fujitsu Siemens Computers proven commitment to green IT offers clear competitive advantages to our customers.

PRIMERGY RX100 S5

As business processes and customer bases grow and rely more on Internet technology, data centers face the challenge of rapid enhancements of their front end infrastructure services. Increasingly they are looking for a platform solution that has minimum impact on their budgets, yet is easy to deploy and simple to operate. That is where the RX100 S5 optimally fits in.
With technical evolutions like Quad-Core Intel® Xeon® UP 3200/3300 series CPU, integrated SAS or SATA RAID 0, 1 data protection for up to 2x 3.5-inch “easy change” SATA or 2x 3.5-inch hot-plug SATA/SAS disks and 8 GB direct addressable memory the PRIMERGY RX100 S5 matches your business application requirements perfectly. It combines the benefits of cost-optimized SATA or SAS disk technology with a space-saving 1 U form factor of less than 60 cm in depth. This makes it easy to integrate into any rack enclosures. The standard iRMC S2 (integrated Remote Management Controller) offers enhanced system management based on IPMI 2.0 technology. The set of integrated network and management functions make it a good choice for budget-sensitive infrastructure solutions

Main features	Benefits
SATA or SAS RAID 0, 1 controller, dual Ethernet, Integrated Remote Management Controller (iRMC S2) as standard, ServerView Local Service Panel (LSP) opt.	Cost-optimized platform for all datacenter front-end operations
Intel® Quad-Core Xeon® UP 3200/3300 series or Dual-Core 3000/3100 series with EM64T and virtualization technology, or Pentium DC, Core2 Duo or Celeron® with lowest power consumption	Allowing the platform to do more in less time, IT departments can consolidate applications and more effectively employ the server with less power consumption Quad-Core Xeon UP brings huge performance increase
Integrated SAS or SATA RAID 0, 1, SATA hot-plug or easy change hard disks	Easy to use and data safety
2 x Gbit/s Ethernet LAN with TCP/IP accelerator plus switchable Service LAN (dedicated or shared)	Top-speed communications link via LAN as standard will assure continuity in failover mode

Technical details

PRIMERGY RX100 S5		
Hard disk architecture	3.5” SATA	3.5” SAS/SATA
Mainboard		
Mainboard type	D 2542	
Chipset	Intel® 3210	
Processor quantity and type	1 x Intel® Celeron® processor / Intel® Pentium® Dual-Core processor / Intel® XEON® processor 3000 sequence	
Processor options	Intel® Celeron® 440 (1C, 2.00 GHz, SLC: 512 KB, 800 MHz, 35 W) Intel® Core™2 Duo E7200 (2C, 2.53 GHz, SLC: 3 MB, 1066 MHz, 65 W) Intel® Pentium® E2200 (2C, 2.20 GHz, SLC: 1 MB, 800 MHz, 65 W) Intel® Xeon® E3110 (2C, 3.00 GHz, SLC: 6 MB, 1333 MHz, 65 W) Intel® Xeon® E3120 (2C, 3.16 GHz, SLC: 6 MB, 1333 MHz, 65 W) Intel® Xeon® L3110 (2C, 3.00 GHz, SLC: 6 MB, 1333 MHz, 45 W) Intel® Xeon® X3220 (4C, 2.40 GHz, SLC: 2x4 MB, 1066 MHz, 95 W) Intel® Xeon® X3320 (4C, 2.50 GHz, SLC: 2x6 MB, 1333 MHz, 95 W) Intel® Xeon® X3360 (4C, 2.83 GHz, SLC: 2x6 MB, 1333 MHz, 95 W) Intel® Xeon® X3370 (4C, 3.00 GHz, SLC: 2x6 MB, 1333 MHz, 95 W)	
Memory slots	4 (2 banks with 2 DIMMs each)	
Memory slot type	DIMM (DDR2)	
Memory capacity (min. - max.)	1 GB - 8 GB	
Memory Protection	Advanced ECC	
Memory notes	Dual channel support. For dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be the same.	
Memory options	2 GB (1 module(s) with 2 GB), DDR2, 800 MHz 1 GB (1 module(s) with 1 GB), DDR2, 800 MHz	
Upgrade notes	For a memory and processor upgrade a BIOS update may be required.	
Interfaces		
USB ports	5 x (2x front, 2x back, 1x internal)	
Graphics (15-pin)	1 x VGA (15-pin)	
Serial 1 (9-pin)	1 x serial RS-232-C (9-pin), usable for iRMC or system or shared	
Mouse / Keyboard (PS/2)	2	
LAN / Ethernet (RJ-45)	2 x Gbit/s Ethernet	
Service LAN (RJ45)	1 x dedicated service LAN port for iRMC S2 (10/100 Mbit/s) Service LAN traffic can be switched to shared onbord Gbit LAN port	
Onboard or integrated Controller		
SATA Controller type notes	SATA (for 1x CD-RW / DVD / DVD-RW)	
LAN Controller	BCM 5715, 2 x 10/100/1000 Mbit/s Ethernet (TCP/IP acceleration), PXE-Boot via LAN from PXE server, iSCSI Boot (also diskless) via onboard LAN	
Remote Management Controller	Integrated Remote Management Controller (iRMC S2, 32 MB attached memory incl. graphics controller), IPMI 2.0 compatible	
Onboard or integrated Controller (Base unit specific)		
Integrated RAID Controller	2 port SATA with RAID 0/1for HDD´s	4 port for internal SAS HDDs, with RAID 0/1 for Windows and Linux
SATA Controller	2-port SATA 300 with RAID 0, 1	
SATA Controller type notes	for easy change SATA hard disks (hot-plug opt.)	
Slots		
PCI-Express x8	2 x low profile (one of these can be used as standard short, 175mm)	
Drive bays		
Accessible drive bays	1 x 5.25/0.5-inch for CD-RW/DVD 1 x 3.5/0.5-inch for ServerView Local Service Panel	
Drive bays (Base unit specific)		
Hard disk bays	2 x 3.5-inch easy change SATA	2 x 3.5-inch hot-plug SAS/SATA
Optional hard disk bays	2 x 3.5-inch hot-plug SATA	-
Operating panel		
Operating buttons	On/off switch NMI button	
Status LEDs	System status (amber / yellow) Identification (blue) Hard disks access (green) Power (amber / green) At system rear side: System status (amber / yellow) Identification (blue) LAN connection (green) LAN speed (green / yellow)	
Service display	Optional: ServerView Local Service Panel (LSP)	

BIOS	
BIOS features	ROM based setup utility Recovery BIOS BIOS settings save and restore Local BIOS update from USB device Online update tools for main Windows and Linux versions Local and remote update via ServerView Update Manager SMBIOS V2.4 Remote PXE boot support Remote iSCSI boot support
Supported server operating systems	
Supported operating systems	Microsoft® Windows Server® 2008 Microsoft® Windows Server® 2003 Novell SUSE Linux Enterprise Server Red Hat Enterprise Linux Note: Support of other Linux derivatives on demand
Operating system release link	http://www.fujitsu-siemens.com/software ftp://ftp.fujitsu-siemens.com/outgoing/osrel.xls
Server Management	
Standard	ServerView Suite: SV Installation Manager, SV Operation Mananger, SV RAID Manager, SV Update Manager, SV Agents Online update packages for BIOS, firmware drivers and ServerView Agents ServerView Integration solutions for Microsoft SMS, MOM, SCOM, SCCM and Altiris Deployment Solution ServerView Deployment Manager (fully functional 30-day trial version)
Option	ServerView Integration for Tivoli TEC, Tivoli NetView, HP OpenView NNM and HP OpenView iRMC S2 Advanced Pack
Server Management Notes	Regarding Operating System dependencies and product details for ServerView Suite Software Products see dedicated Product Data sheets.
Dimensions / Weight	
Rack (W x D x H)	430 x 560 x 42.5 mm
Mounting Depth Rack	575 mm
Height Unit Rack	1 U
Mounting Cable depth rack	200 mm cable depth
Weight	up to 12 kg
Weight notes	Weight may vary depending on actual configuration.
Rack integration kit	Rack integration kit as option
Environmental	
Noise emission	Measured according to ISO 7779 and declared according to ISO 9296
Sound pressure (LpAm)	34 dB(A) (idle) / 46 dB(A) (operating)
Sound power (LWAd; 1B = 10dB)	4.9 B (idle) / 6.1 B (operating)
Operating ambient temperature	15 - 35°C
Operating relative humidity	10 - 85 % (non condensing)
Electrical values	
Power supply configuration	1x standard power supply
Standard power supply output	350 W
Rated voltage range	100 - 127 V / 200 - 240 V
Rated frequency range	50 - 60 Hz
Rated current max.	4.0 A / 2.0 A (100 V / 240 V)
Active Power max.	177 W
Apparent power max.	183 VA
Heat emission	637.2 kJ/h (604.1 BTU)
Compliance	
Germany	GS
Europe	CE
USA/Canada	CSAc/us ULc/us FCC Class A
Global	CB RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronical equipment)
Japan	VCCI
China	CCC
Australia&New Zealand	C-Tick
Taiwan	BSMI
Compliance notes	There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request.
Compliance link	https://sp.fujitsu-siemens.com/sites/certificates/default.aspx

Components

Hard disk drives	SATA, 3 Gb/s 1000 GB, 7200 rpm, hot plug, 3.5-inch SATA, 3 Gb/s 750 GB, 7200 rpm, hot plug, 3.5-inch SATA, 3 Gb/s 500 GB, 7200 rpm, hot plug, 3.5-inch SATA, 3 Gb/s 250 GB, 7200 rpm, hot plug, 3.5-inch SATA, 3 Gb/s 160 GB, 7200 rpm, hot plug, 3.5-inch SATA, 3 GB/s 160 GB, 7200 rpm 3.5-inch SAS, 3 Gb/s 450 GB, 15000 rpm, hot plug, 3.5-inch SAS, 3 Gb/s 300 GB, 15000 rpm, hot plug, 3.5-inch SAS, 3 Gb/s 146 GB, 15000 rpm, hot plug, 3.5-inch SAS, 3 Gb/s 73 GB, 15000 rpm, hot plug, 3.5-inch
Hard disk notes	One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. Accessible capacity may vary, also depending on used software and tool No mix of SAS and SATA HDDs possible
Optical drives	Blu-ray combo drive, (2x BD-ROM; 8x DVD; 24x CD), slimline, SATA I CD-RW / DVD Combo, (8xDVD; 24xCD/CD-R, 16xCD-RW), slimline, SATA I DVD Super Multi, (8xDVD/DVD+RW, 6xDVD-RW, 5xDVD-RAM; 24xCD/CD-R, 16xCD-RW), slimline, SATA I
SCSI / SAS Controller	SCSI Ctrl 320 MB/sec 1x int /1x ext SAS Ctrl 3 Gbit/sec 4 ports int. / 4 ports ext.
LAN Controller	Ethernet Ctrl 1 x 1 Gbit/sec Intel® PRO/1000 PF Server Adapter low profile Ethernet Ctrl 1 x 1 Gbit/sec Intel® PRO/1000 PT Server Adapter low profile Ethernet Ctrl 2 x 1 Gbit/sec Intel® PRO/1000 PT Dual Port Server Adapter low profile Ethernet Ctrl 4 x 1 Gbit/sec Intel® PRO/1000 PT Quad Port Server Adapter low profile
Rack infrastructure	Cable Arm 1U for PRIMECENTER- and 3rd-party racks Rackmount kit full extraction (760mm), tool less mounting Rackmount kit partly extraction (524mm), tool less mounting

Warranty	
Standard Warranty	1 year
Service level	On-site Service
Maintenance and Support Services - the perfect extension	
Recommended Service	7x24, Onsite Response Time: 4h
Spare Parts availability	5 years
Service Weblink	www.fujitsu-siemens.com/Supportservice

Information about environmental care, policies, programs and our Environmental Guideline FSC 03230:
http://www.fujitsu-siemens.com/aboutus
Take back and Recycling information:
http://www.fujitsu-siemens.com/recycling

Published by
Fujitsu Siemens Computers
http://www.fujitsu-siemens.com/